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RAW SEQUENCE LISTING

DATE: 03/20/2003

PATENT APPLICATION: US/09/726,348C

TIME: 16:04:22

Input Set : A:\Subst SEQ LIST CRF.txt

Output Set: N:\CRF4\03202003\I726348C.raw

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3 <110> APPLICANT: Wei, Ying-Fei et al.
5 <120> TITLE OF INVENTION: Transforming Growth Factor Alpha HIII
7 <130> FILE REFERENCE: PF220P1
9 <140> CURRENT APPLICATION NUMBER: 09/726,348C
10 <141> CURRENT FILING DATE: 2000-12-01
12 <150> PRIOR APPLICATION NUMBER: 08/778,545
13 <151> PRIOR FILING DATE: 1997-01-03
15 <150> PRIOR APPLICATION NUMBER: 60/011,136
16 <151> PRIOR FILING DATE: 1996-01-04
18 <150> PRIOR APPLICATION NUMBER: 60/168,387
19 <151> PRIOR FILING DATE: 1999-12-02
21 <160> NUMBER OF SEQ ID NOS: 21
23 <170> SOFTWARE: PatentIn version 3.0
25 <210> SEQ ID NO: 1
26 <211> LENGTH: 923
27 <212> TYPE: DNA
28 <213> ORGANISM: homo sapiens
30 <400> SEQUENCE: 1
31 gaaaatggcg cctcacggcc cgggtagtct tacgaccctg gtgccctggg ctgccgccct      60
33 gctcctcgct ctgggcgtgg aaagggtctt ggcgctaccc gagatatgca cccaatgtcc      120
35 agggagcgtg caaaatttgt caaaagtggc cttttattgt aaaacgacac gagagctaata      180
37 gctgcatgcc cgttgctgcc tgaatcagaa ggcacccatc ttggggctgg atctccagaa      240
39 ctgttctctg gaggaccctg gtccaaaactt tcatcaggca cataccactg tcatcataga      300
41 cctgcaagca aacccccctca aagggtgactt ggccaacacc ttccgtgggt ttactcagct      360
43 ccagactctg atactgccac aacatgtcaa ctgtcctgga ggaattaatg cctggaatac      420
45 tatcacctct tatatagaca accaaatctg tcaagggcaa aagaaccttt gcaataacac      480
47 tggggaccca gaaatgtgtc ctgagaatgg atcttgtgta cctgatgggc caggtctttt      540
49 gcagtgtgtt tgtgctgatg gtttccatgg atacaagtgt atgcgccagg gctcgtttctc      600
51 actgcttatg ttcttcggga ttctgggagc caccactcta tccgtctcca ttctgctttg      660
53 ggcgaccag cgccgaaaag ccaagacttc atgaactaca taggtcttac cattgacctta      720
55 agatcaatct gaactatctt agcccagtcg gggagctctg cttcctagaa aggcattctt      780
57 cgccagtgga ttgcctcaa ggttgaggcc gccattggaa gatgaaaaat tgcactccct      840
59 tgggttagac aaataaccagt tccattgggt gttgttgccct ataataaaca cttttttctt      900
61 ttttaaaaaa aaaaaaaaaa aaa                                     923
64 <210> SEQ ID NO: 2
65 <211> LENGTH: 229
66 <212> TYPE: PRT
67 <213> ORGANISM: homo sapiens
69 <400> SEQUENCE: 2
71 Met Ala Pro His Gly Pro Gly Ser Leu Thr Thr Leu Val Pro Trp Ala
72 -25                      -20                      -15                      -10
74 Ala Ala Leu Leu Leu Ala Leu Gly Val Glu Arg Ala Leu Ala Leu Pro
75                      -5                      1                      5

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77 Glu Ile Cys Thr Gln Cys Pro Gly Ser Val Gln Asn Leu Ser Lys Val
78      10      15      20
80 Ala Phe Tyr Cys Lys Thr Thr Arg Glu Leu Met Leu His Ala Arg Cys
81      25      30      35
83 Cys Leu Asn Gln Lys Gly Thr Ile Leu Gly Leu Asp Leu Gln Asn Cys
84 40      45      50      55
86 Ser Leu Glu Asp Pro Gly Pro Asn Phe His Gln Ala His Thr Thr Val
87      60      65      70
89 Ile Ile Asp Leu Gln Ala Asn Pro Leu Lys Gly Asp Leu Ala Asn Thr
90      75      80      85
92 Phe Arg Gly Phe Thr Gln Leu Gln Thr Leu Ile Leu Pro Gln His Val
93      90      95      100
95 Asn Cys Pro Gly Gly Ile Asn Ala Trp Asn Thr Ile Thr Ser Tyr Ile
96      105      110      115
98 Asp Asn Gln Ile Cys Gln Gly Gln Lys Asn Leu Cys Asn Asn Thr Gly
99 120      125      130      135
101 Asp Pro Glu Met Cys Pro Glu Asn Gly Ser Cys Val Pro Asp Gly Pro
102      140      145      150
104 Gly Leu Leu Gln Cys Val Cys Ala Asp Gly Phe His Gly Tyr Lys Cys
105      155      160      165
107 Met Arg Gln Gly Ser Phe Ser Leu Leu Met Phe Phe Gly Ile Leu Gly
108      170      175      180
110 Ala Thr Thr Leu Ser Val Ser Ile Leu Leu Trp Ala Thr Gln Arg Arg
111      185      190      195
113 Lys Ala Lys Thr Ser
114 200
116 <210> SEQ ID NO: 3
117 <211> LENGTH: 52
118 <212> TYPE: PRT
119 <213> ORGANISM: homo sapiens
121 <400> SEQUENCE: 3
123 Gly Gln Lys Asn Leu Cys Asn Asn Thr Gly Asp Pro Glu Met Cys Pro
124 1      5      10      15
126 Glu Asn Gly Ser Cys Val Pro Asp Gly Pro Gly Leu Leu Gln Cys Val
127      20      25      30
129 Cys Ala Asp Gly Phe His Gly Tyr Lys Cys Met Arg Gln Gly Ser Phe
130      35      40      45
132 Ser Leu Leu Met
133      50
135 <210> SEQ ID NO: 4
136 <211> LENGTH: 733
137 <212> TYPE: DNA
138 <213> ORGANISM: homo sapiens
140 <400> SEQUENCE: 4
141 gggatccgga gcccaaatct tctgacaaaa ctcacacatg cccaccgtgc ccagcacctg      60
143 aattcgaggg tgcaccgtca gtcttctctt tcccccaaaa acccaaggac accctcatga      120
145 tctcccgga ccttgaggtc acatgcgtgg tgggtggacgt aagccacgaa gaccctgagg      180
147 tcaagttcaa ctggtacgtg gacggcgtgg aggtgcataa tgccaagaca aagccgcggg      240
149 aggagcagta caacagcacg taccgtgtgg tcagcgtcct caccgtcctg caccaggact      300

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151 ggctgaatgg caaggagtag aagtgaagg tctccaacaa agccctccca acccccatcg 360
153 agaaaaccat ctccaaagcc aaagggcagc cccgagaacc acaggtgtac accctgcccc 420
155 catcccggga tgagctgacc aagaaccagg tcagcctgac ctgcctggtc aaaggcttct 480
157 atccaagcga catcgccgtg gagtgggaga gcaatgggca gccggagaac aactacaaga 540
159 ccacgcctcc cgtgctggac tccgacggct ccttcttctt ctacagcaag ctcaccgtgg 600
161 acaagagcag gtggcagcag gggaacgtct tctcatgctc cgtgatgcat gaggtctctg 660
163 acaaccacta cacgcagaag agcctctccc tgtctccggg taaatgagtg cgacggccgc 720
165 gactctagag gat 733
168 <210> SEQ ID NO: 5
169 <211> LENGTH: 5
170 <212> TYPE: PRT
171 <213> ORGANISM: Artificial Sequence
173 <220> FEATURE:
174 <221> NAME/KEY: SITE
175 <222> LOCATION: (3)..(3)
176 <223> OTHER INFORMATION: Xaa equals any amino acid
179 <400> SEQUENCE: 5
W--> 181 Trp Ser Xaa Trp Ser
182 1 5
184 <210> SEQ ID NO: 6
185 <211> LENGTH: 86
186 <212> TYPE: DNA
187 <213> ORGANISM: Artificial Sequence
189 <220> FEATURE:
190 <223> OTHER INFORMATION: 5' primer containing 18bp complementary to SV40 promotor and
191 an XhoI site
194 <400> SEQUENCE: 6
195 gcgcctcgag atttccccga aatctagatt tccccgaaat gatttccccg aaatgatttc 60
197 cccgaaatat ctgccatctc aattag 86
200 <210> SEQ ID NO: 7
201 <211> LENGTH: 27
202 <212> TYPE: DNA
203 <213> ORGANISM: Artificial Sequence
205 <220> FEATURE:
206 <223> OTHER INFORMATION: 3' primer containing sequence complementary to SV40
207 promotor and a HindIII site
210 <400> SEQUENCE: 7
211 gcggcaagct ttttgcaaag cctaggc 27
214 <210> SEQ ID NO: 8
215 <211> LENGTH: 271
216 <212> TYPE: DNA
217 <213> ORGANISM: Homo sapiens
219 <400> SEQUENCE: 8
220 ctcgagatgt ccccgaaatc tagatttccc cgaaatgatt tccccgaaat gatttccccg 60
222 aaatatctgc catctcaatt agtcagcaac catagtcccc cccctaactc cgcccatccc 120
224 gccctaact ccgcccagtt ccgcccattc tccgccccat ggctgactaa ttttttttat 180
226 ttatgcagag gccgaggccg cctcggcctc tgagctatcc cagaagtagt gaggaggctt 240
228 ttttgagggc ctaggctttt gcaaaaagct t 271
231 <210> SEQ ID NO: 9

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232 <211> LENGTH: 32
233 <212> TYPE: DNA
234 <213> ORGANISM: Artificial Sequence
236 <220> FEATURE:
237 <223> OTHER INFORMATION: 5' PCR primer
240 <400> SEQUENCE: 9
241 gcgctcgagg gatgacagcg atagaacccc gg 32
244 <210> SEQ ID NO: 10
245 <211> LENGTH: 31
246 <212> TYPE: DNA
247 <213> ORGANISM: Artificial Sequence
249 <220> FEATURE:
250 <223> OTHER INFORMATION: 3' PCR primer
253 <400> SEQUENCE: 10
254 gcgaagcttc gcgactcccc ggatccgcct c 31
257 <210> SEQ ID NO: 11
258 <211> LENGTH: 12
259 <212> TYPE: DNA
260 <213> ORGANISM: Artificial Sequence
262 <220> FEATURE:
263 <223> OTHER INFORMATION: NF-KB repeat in upstream primer
266 <400> SEQUENCE: 11
267 ggggactttc cc 12
270 <210> SEQ ID NO: 12
271 <211> LENGTH: 73
272 <212> TYPE: DNA
273 <213> ORGANISM: Artificial Sequence
275 <220> FEATURE:
276 <223> OTHER INFORMATION: 5' primer containing the NF-KB binding site, 18bp
277 complementary to SV40 promotor, and an XhoI site
280 <400> SEQUENCE: 12
281 gcggcctcga ggggactttc cgggggactt tccggggact ttccgggact ttccatcctg 60
283 ccattctcaat tag 73
286 <210> SEQ ID NO: 13
287 <211> LENGTH: 256
288 <212> TYPE: DNA
289 <213> ORGANISM: Homo sapiens
291 <400> SEQUENCE: 13
292 ctcgagggga ctttcccggg gactttccgg ggactttccg ggactttcca tctgccatct 60
294 caattagtca gcaaccatag tcccgcacct aactccgccc atcccgcgcc taactccgcc 120
296 cagttccgcc cattctccgc cccatggctg actaatTTTT tttatttatg cagaggccga 180
298 ggccgcctcg gcctctgagc tattccagaa gtagtgagga ggcttttttg gaggcctagg 240
300 cttttgcaaa aagctt 256
303 <210> SEQ ID NO: 14
304 <211> LENGTH: 27
305 <212> TYPE: DNA
306 <213> ORGANISM: Artificial Sequence
308 <220> FEATURE:
309 <223> OTHER INFORMATION: 5' primer containing a BamHI site and 18nt of TGF alpha HIII

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312 <400> SEQUENCE: 14
313 cgcgatccg ggcaaaagaa cctttgc
316 <210> SEQ ID NO: 15
317 <211> LENGTH: 30
318 <212> TYPE: DNA
319 <213> ORGANISM: Artificial Sequence
321 <220> FEATURE:
322 <223> OTHER INFORMATION: 3' primer containing an XbaI site and 21 nt of TGF alpha
HIII
325 <400> SEQUENCE: 15
326 gcgtctagac taaagcagtg agaacgagcc
329 <210> SEQ ID NO: 16
330 <211> LENGTH: 34
331 <212> TYPE: DNA
332 <213> ORGANISM: Artificial Sequence
334 <220> FEATURE:
335 <223> OTHER INFORMATION: 5' primer containing a BamHI site
338 <400> SEQUENCE: 16
339 cgcgatccg tccatcatgg cgctcacgg cccg
342 <210> SEQ ID NO: 17
343 <211> LENGTH: 33
344 <212> TYPE: DNA
345 <213> ORGANISM: Artificial Sequence
347 <220> FEATURE:
348 <223> OTHER INFORMATION: 3' primer containing an XbaI site
351 <400> SEQUENCE: 17
352 gcgtctagac tacataagca gtgacaacga gcc
355 <210> SEQ ID NO: 18
356 <211> LENGTH: 28
357 <212> TYPE: DNA
358 <213> ORGANISM: Artificial Sequence
360 <220> FEATURE:
361 <223> OTHER INFORMATION: 5' primer containing a BamHI site
364 <400> SEQUENCE: 18
365 cgcgatccc gggcaaaaga acctttgc
368 <210> SEQ ID NO: 19
369 <211> LENGTH: 33
370 <212> TYPE: DNA
371 <213> ORGANISM: Artificial Sequence
373 <220> FEATURE:
374 <223> OTHER INFORMATION: 3' primer containing an XbaI site
377 <400> SEQUENCE: 19
378 gcgtctagac tacataagca gtgagaacga gcc
381 <210> SEQ ID NO: 20
382 <211> LENGTH: 34
383 <212> TYPE: DNA
384 <213> ORGANISM: Artificial Sequence
386 <220> FEATURE:
387 <223> OTHER INFORMATION: 5' primer containing a BamHI site and 18nt of TGF alpha HIII
390 <400> SEQUENCE: 20

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RAW SEQUENCE LISTING ERROR SUMMARY
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Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:5; Xaa Pos. 3

VERIFICATION SUMMARY

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Input Set : A:\Subst SEQ LIST CRF.txt

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L:181 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5 after pos.:0